

REMARKS/ARGUMENTS

Reconsideration of this patent application is respectfully requested in view of the foregoing amendments, and the following remarks.

The claims are 20-28. Independent claim 20 has been amended to more clearly define the invention. Support for the amendments to claim 20 may be found, *inter alia*, in the specification as filed at the third full paragraph on page 12 and the paragraph bridging pages 12-13 (paragraphs [0034] and [0035] of the published application, US 2005/0268607 A1) which provide in part "[t]he driving THFA [thermo-hydrodynamic force amplifier] thereby has in principle the same structure as shown in FIG. 8 and as described herein above" and in claim 24 and 25. No new matter has been introduced. Claims 21-28 are as previously presented.

Claims 20-22 and 26-28 were rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 4,498,295 to Knoos. Claims 23-25 were rejected under 35 U.S.C. §103(a) as being unpatentable over Knoos.

Essentially, it was the Examiner's position that Knoos discloses an amplifier substantially as set forth in the claims,

except for the specific frequency, the force balancer at the connection, and the separate machine being a linear motion energy converter, which were said to be within the skill of the art.

In response, Applicants have amended claim 20 to better define the invention and respectfully traverse the Examiner's rejection for the following reasons.

As set forth in claim 20 as amended, Applicants' invention provides a thermo-hydrodynamic force amplifier in which a liquid is displaced between a hot region and a cold region within a rigid cylinder by means of a drive-actuated displacer piston through conduits of a heater-regenerator-cooler arrangement or of a heater-recuperator-cooler arrangement so that the liquid cyclically contracts and expands, thereby providing output work which in each cycle is greater than an input work at the displacer piston. The liquid in the arrangement is cyclically displaced in alternating flow directions in a circuit, which includes in its circuit path the arrangement and the displacer piston in the rigid cylinder, the liquid producing the output work at a separate machine.

As further set forth in claim 20 as amended, the separate

machine is a second thermo-hydrodynamic force amplifier, with the features as described above. The first thermo-hydrodynamic force amplifier and the separate machine in the form of the second thermo-hydrodynamic force amplifier are coupled in such a manner that the linear work production of the cyclically expending liquid of the first thermo-hydrodynamic force amplifier is directly coupled into the second thermo-hydrodynamic force amplifier.

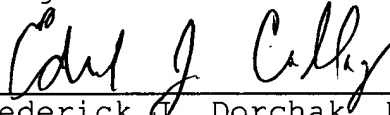
The cited reference to *Knoos* fails to disclose or suggest a thermo-hydrodynamic force amplifier having the structure recited in claim 20 as amended. In particular, *Knoos* discloses only one system in itself. *Knoos* nowhere describes or suggests the possibility of coupling two identical thermo-hydrodynamic force amplifiers as set forth in Applicant's amended claim 20. Moreover, it is respectfully submitted that it would not have been obvious to one of ordinary skill in the art to combine two identical thermo-hydrodynamic force amplifiers as set forth in Applicants' amended claim 20.

Accordingly, it is respectfully submitted that *Knoos* neither anticipates nor renders obvious Applicants' claim 20 as amended or claims 21-28 which depend directly or indirectly thereon.

In summary, claim 20 has been amended to more clearly define the invention. In view of the foregoing it is respectfully requested that the pending claims, which are claims 20-28, be allowed and that this application be passed to issue.

A Second Supplemental Information Disclosure Statement is also submitted herewith.

Respectfully submitted,
Juergen KLEINWAECHTER ET AL



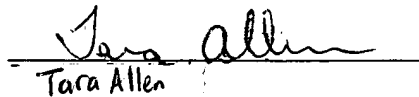
COLLARD & ROE, P.C.
1077 Northern Boulevard
Roslyn, New York 11576
(516) 365-9802

Frederick V. Dorchak, Reg. No. 29,298
Edward R. Freedman, Reg. No. 26,048
Edward J. Callaghan, Reg. No. 46,594
Attorneys for Applicants

FJD:ea

Express Mail No. : EM 324 228 011 US
Date of Deposit: August 10, 2009

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above, and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Tara Allen